

In The Claims:

Claim 1. (currently amended) [[A]] An isolated biopolymer marker ~~peptide consisting of amino acid residues 2-14 of SEQ ID NO: 1 diagnostic for renal failure or myocardial infarction.~~

Claims 2-35 (canceled)

Claim 36. (Currently amended) A method for diagnosing determining the presence of an isolated biopolymer marker having SEQ ID NO: 1 renal failure or myocardial infarction comprising:

(a) obtaining a sample from a patient;
(b) conducting mass spectrometric analysis on said sample in a manner effective to maximize elucidation of discernible peptide fragments contained therein; and comparing mass spectrum profiles of said isolated biopolymer marker having SEQ ID NO: 1 to mass spectrum profiles of peptides elucidated from said sample; and
(c) comparing mass spectrum profiles of a peptide consisting of amino acid residues of 2-14 of SEQ ID NO: 1 to mass spectrum profiles of peptides elucidated from said sample, wherein recognition of a mass spectrum profile in the sample displaying the characteristic profile of the mass spectrum profile for the peptide consisting of amino acid residues 2-14 of SEQ ID NO: 1 is diagnostic for renal failure or myocardial infarction.

(c) confirming the presence of said isolated biopolymer marker having SEQ ID NO: 1 in said sample displaying a peak profile at

about 1350 Da in said mass spectrum profile;
wherein the presence of said isolated biopolymer marker is
indicative of a link to renal failure or myocardial infarction.

Claim 37. (Previously presented) The method of claim 36, wherein the sample is an unfractionated body fluid or a tissue sample.

Claim 38. (Previously presented) The method of claim 36, wherein said sample is selected from the group consisting of blood, blood products, urine, saliva, cerebrospinal fluid, and lymph.

Claim 39. (Previously presented) The method of claim 36, wherein said mass spectrometric analysis is Surface Enhanced Laser Desorption Ionization (SELDI) mass spectrometry (MS).

Claim 40. (Previously presented) The method of claim 36, wherein said patient is a human.

Claims 41-43. (cancelled).